

US-PAT-NO: 5774321

DOCUMENT-IDENTIFIER: US 5774321 A

TITLE: Power supply circuit with load
protection function

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Detailed Description Text - DETX (22):

If a short-circuit occurs in the load and the current flowing through the load exceeds a predetermined level which is determined by the value of resistors R1 through R4, the voltage drop ΔV across current sense resistor R_s causes the voltage V_a to become greater than the voltage V_b . This in turn, causes the output of comparator U3 to switch from a high logic level to a low-logic level, thereby causing latch 130 to generate a latch signal which has a low-logic level. The AND gate U10 then output a pulse signal as shown in waveform (b) of FIG. 4, and the AND gate U9 outputs a low level signal which turns off transistor TR1, thereby turning the switching device M1 off. As a result, the power supply from the power source 100 to the load 200 is interrupted.